TEAC SCHEMATIC DIAGRAM (AMPLIFIER) C-2X

DOLBY B TYPE PROCESSOR PCB 104

CX-8 VAR. (OPTION)

CX-8X REF.

IC's

JRC4558DF (TOP VIEW)	LA4170 (TOP VIEW)	LM13600 (TOP VIEW)

TRANSISTOR

2SA733P 2SA933LNS	2SC1327T 2SC1684S 2SC1844F	2SA934R	2SC2060R 2SC2060Q

DOLBY B TYPE PROCESSOR PCB 104

LINE IN

SW PCB J24-3

DBX UNIT TO ENCODER / TO DECODER

REC AMPL PCB (16) / (15) / (19) / (18)

CX-8 VAR. (OPTION)

CX-8X REF.

POWER SUPPLY PCB J32-8 +23V
POWER SUPPLY PCB J32-2 −18V
POWER SUPPLY PCB J33-5 +13V
CONTROL PCB 37 PLAY MUTE
CONTROL PCB 39 REC MUTE
POWER SUPPLY PCB J32-4 0V
POWER SUPPLY PCB J32-12 POWER MUTE

POWER SUPPLY PCB J38-2 OSC +B(25V)
POWER SUPPLY PCB J38-1 0V
CONTROL PCB 38 OSC DRIVE

TP 10 TP 11 TP 15

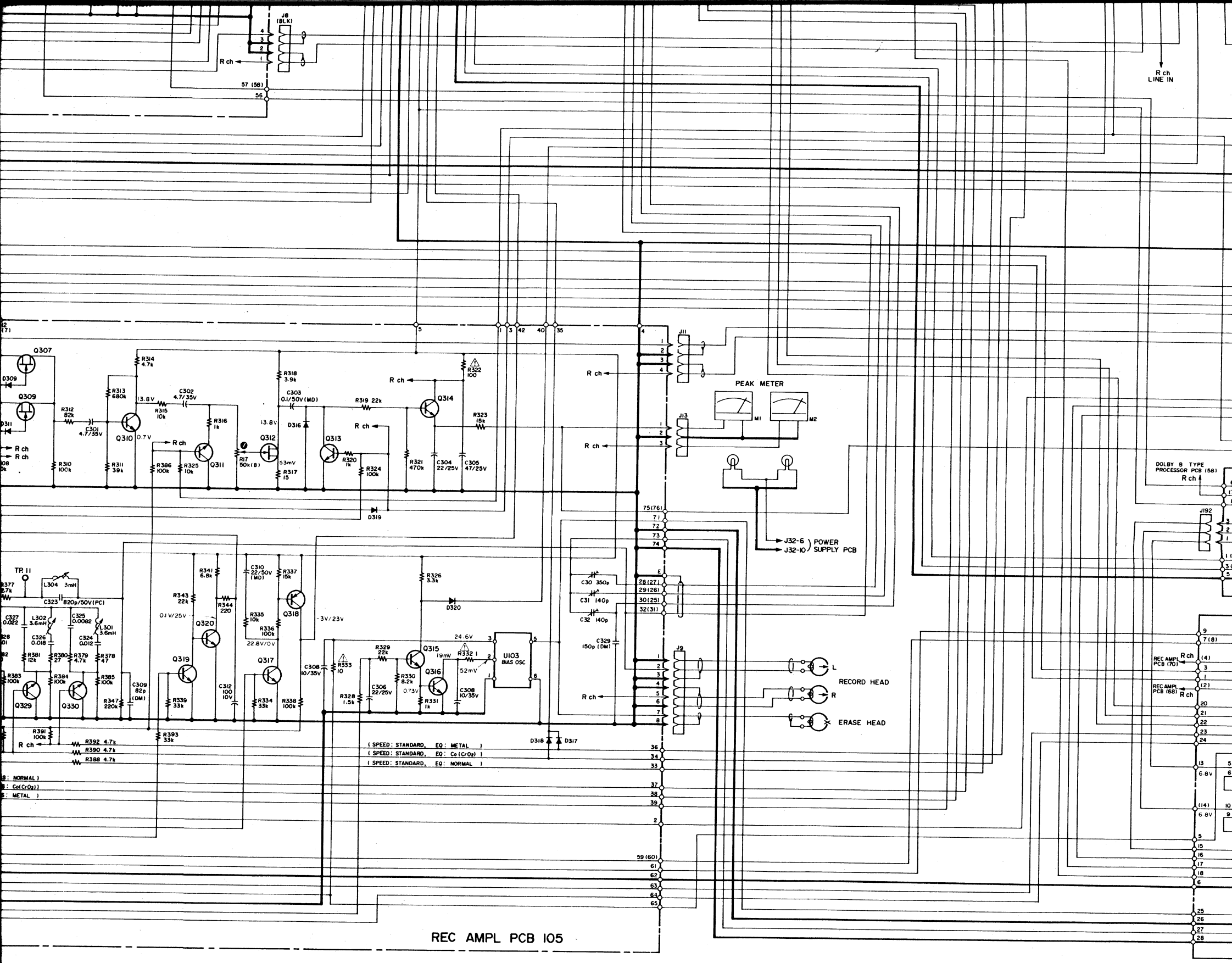
(BIAS : NORMAL)
(BIAS : Co(CrO2))
(BIAS : METAL)

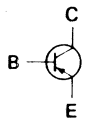
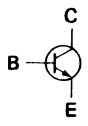
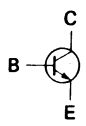
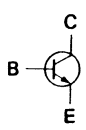
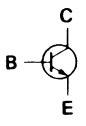
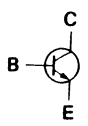
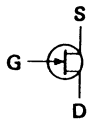
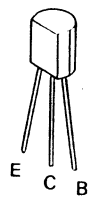
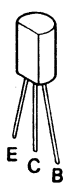
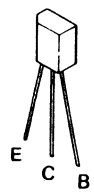
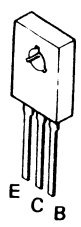
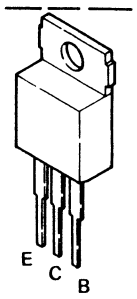
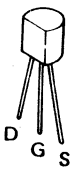
IC's

JRC4558DF (TOP VIEW)	LA4170 (TOP VIEW)	LM13600 (TOP VIEW)
LM324J (TOP VIEW)	M54410P (TOP VIEW)	NE645B (TOP VIEW)

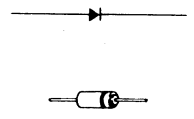
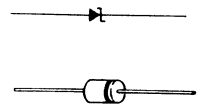
TRANSISTOR

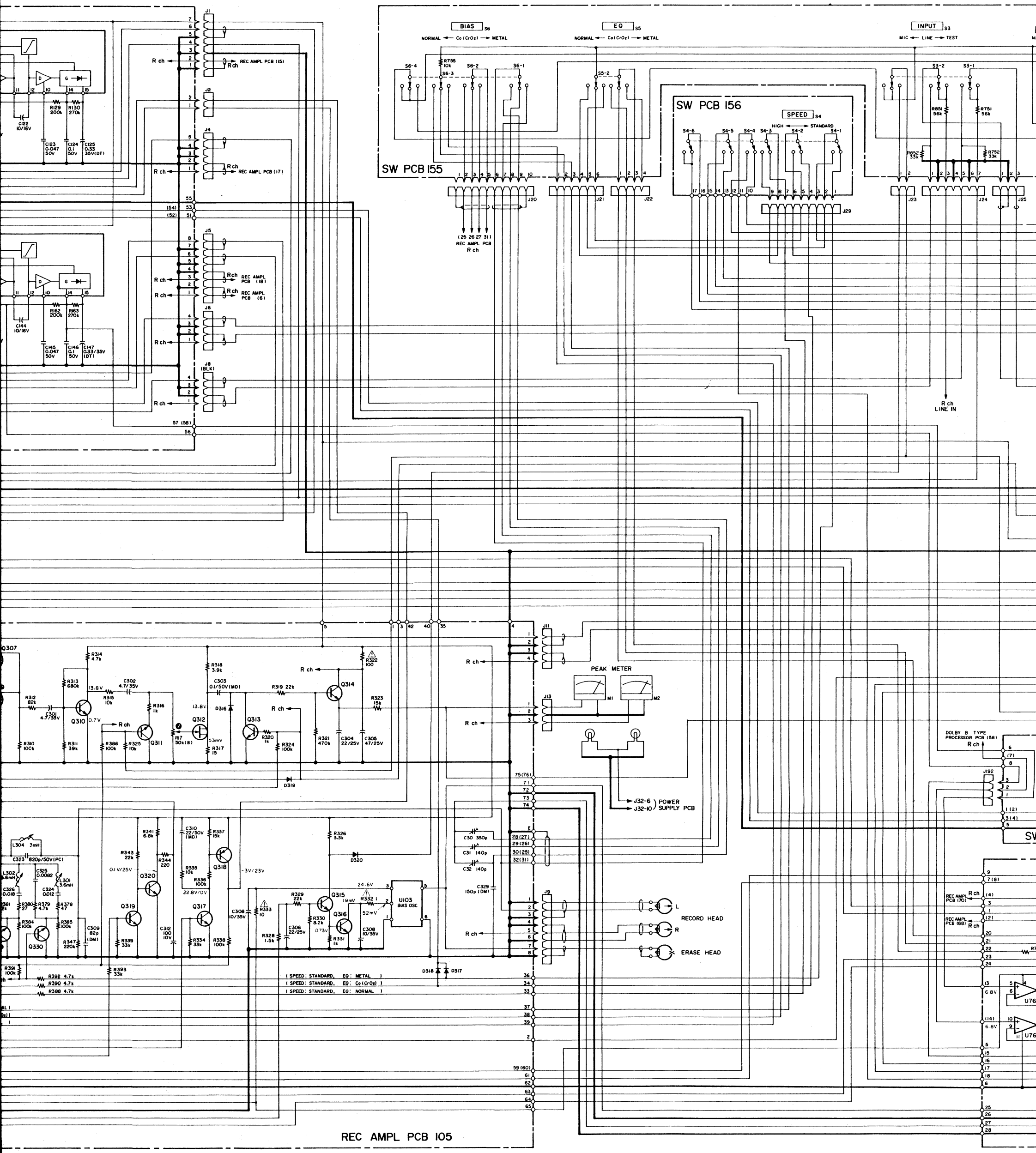
2SA733P 2SA933LNS	2SC1327T 2SC1684S 2SC1844F 2SC1841E 2SC945AK 2SC536G 2SC1741Q 2SC1318S 2SC900U 2SD655E 2SD762P	2SA934R	2SC2060R 2SC2060Q



2SA934R	2SC2060R 2SC2060Q	2SD400MRE 2SC1384R	2SC1636-2 2SC1637-1	2SB631KE	2SD288K	2SK68AMI 2SK105H
						
						

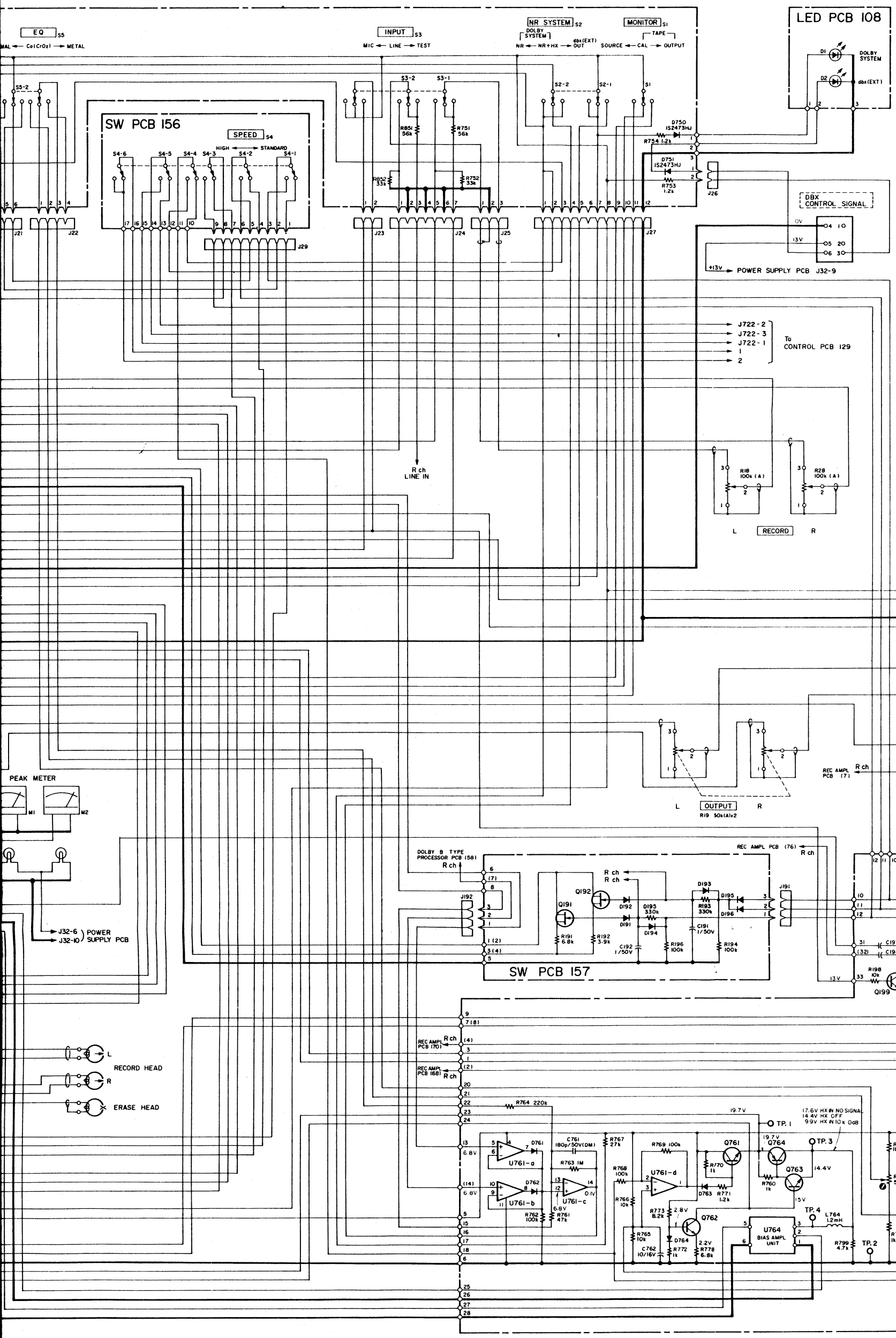
DIODE

1S2473HJ 1S2473VE	ER
	BLAC
EQA01-06R EQA01-06S EQA01-13R EQA01-08R	R
	



DIODE

2SA934R	2SC2060R 2SC2060Q	2SD400MRE 2SC1384R	2SC1636-2 2SC1637-1	2SB631KE	2SD288K	2SK68AMI 2SK105H	1S2473HJ 1S2473VE	ERB12



SEMICONDUCTORS ( ): Rch

REC AMPL PCB 105

Q301 (Q401)	(Not used)
Q302 (Q402)	2SK105(H)
Q303 (Q403)	(Not used)
Q304 (Q404)	2SK105(H)
Q305 (Q405)	2SK105(H)
Q306 (Q406)	(Not used)
Q307 (Q407)	2SK105(H)
Q308 (Q408)	2SK105(H)
Q309 (Q409)	2SK105(H)
Q310 (Q410)	2SC1327(T)
Q311 (Q411)	2SC1684(S)
Q312 (Q412)	2SK68AM
Q313 (Q413)	2SC1637(I)
Q314 (Q414)	2SC1637(I)
Q315	2SC536(G)
Q316	2SC2060(R)
Q317	2SC1684(S)
Q318	2SA933LN(S)
Q319	2SC1684(S)
Q320	2SC536(G)
Q321 (Q421)	2SC1684(S)
Q322 (Q422)	2SA933LN(S)
Q323 (Q423)	2SC536(G)
Q324 (Q424)	2SC536(G)
Q325 (Q425)	2SC536(G)
Q326 (Q426)	2SC1684(S)
Q327 (Q427)	2SA933LN(S)
Q328 (Q428)	2SC536(G)
Q329 (Q429)	2SC536(G)
Q330 (Q430)	2SC536(G)
Q331 (Q431)	2SD655(E)
D301 (D401)	(Not used)
D302 (D402)	IS2473HJ
D303 (D403)	(Not used)
D304 (D404)	(Not used)
D305 (D405)	(Not used)
D306 (D406)	IS2473HJ
D307 (D407)	IS2473HJ
D308 (D408)	(Not used)
D309 (D409)	IS2473HJ
D310 (D410)	IS2473HJ
D311 (D411)	IS2473HJ
D312~D315	IS2473HJ
D316 (D416)	IS2473HJ
D317~D320	IS2473HJ

DOLBY B TYPE PROCESSOR PCB 104

U101 (U201)	NE645B
U102 (U202)	NE645B
Q101 (Q201)	2SC1844(F)
Q102 (Q202)	2SC1327(T)
Q103 (Q203)	2SK105(H)
Q104 (Q204)	2SD655E
Q105 (Q205)	2SK105(H)
Q106 (Q206)	2SC1844(F)
Q107 (Q207)	2SA933LN(S)
Q108 (Q208)	2SK68AM
Q109 (Q209)	2SA933LN(S)
D101 (D201)	IS2473HJ
D102	IS2473HJ
D103 (D203)	EQA0113R
D104 (D204)	IS2473HJ
D105	IS2473HJ
D106 (D206)	EQA0113R

HX PCB 101

U761	LM324J
U762	LM13600
U763	4558DF
Q197~Q199	2SC945A(K)
Q761	2SC2060(Q)
Q762, Q763	2SC945A(K)
Q764	2SB631K(E)
Q765~Q767	2SC536(G)
D761~D764	IS2473HJ

DIODE

2SD288K	2SK68AM 2SK105H	1S2473HJ 1S2473VE	ERB12-02G1	1SR34-200VL	W03C

NOTES

D306 (D406) IS2473HJ
D307 (D407) IS2473HJ
D308 (D408) (Not used)
D309 (D409) IS2473HJ
D310 (D410) IS2473HJ

D311 (D411) IS2473HJ
D312∿D315 IS2473HJ
D316 (D416) IS2473HJ
D317∿D320 IS2473HJ

R ch LINE IN

R18 100k (A)
R28 100k (A)
L RECORD R

R19 50k(A)x2
L OUTPUT R

PEAK METER
M1 M2

J32-6) POWER
J32-10) SUPPLY PCB

L
RECORD HEAD
R

ERASE HEAD

J18 J15 J17

R175 470
R174 4.7k
R176 1k
C170 33/25V
R171 150k
Q170
C171 1/50V (MD)
R178
R270 10k
R28 100k (B)
R170 27k
R172 270k
Q171
R173 22
R177 1k
R ch ONLY
66mV
11.7V
R ch

R181 10
R180 100k
C172 1/50V
U104
C176 220/16V
R182 39
C175 100/10V
R179 15k
C174 10/16V
C173 10/16V
R183 1k
PHONE AMPL PCB 103

REC AMPL PCB (7) R ch

DOLBY B TYPE PROCESSOR PCB (58) R ch

J192 J191
Q191 Q192
D191 D192 D193 D194 D195 D196
R191 6.8k
R192 3.9k
R193 330k
R194 100k
R196 100k
C191 1/50V
C192 1/50V
SW PCB 157

REC AMPL PCB (76) R ch

R492 4.7k
R490 4.7k
R488 4.7k
C197 220/6.3V
C198 220/6.3V
R197 10k
R198 10k
Q199 Q198 Q197
13V
-2.4V

Q767 Q766 Q765
R491 100k
R489 100k
R487 100k
R797 100k
R796 100k
R795 100k
L761 3.6mH 0.0082
L762 3.6mH 0.01
L763 3.6mH 0.0068
0.015
0.0047

REC AMPL PCB (70) R ch
REC AMPL PCB (68) R ch

R764 220k
U761-a U761-b U761-c U761-d
D761 D762
C761 180p/50V(DM)
R763 1M
R767 27k
R768 100k
R769 100k
R766 10k
R762 100k
R761 47k
6.8V
0.1V
19.7V
TP. 1
Q761
R770 1k
D763
R771 1.2k
Q763
Q764
R760 1k
TP. 3
14.4V
17.6V HX IN NO SIGNAL
14.4V HX OFF
9.9V HX IN 10k 0dB
R773 8.2k
2.8V
Q762
D764
R772 1k
C762 10/16V
R765 10k
U764 BIAS AMPL UNIT
TP. 4
L764 1.2mH
R799 4.7k
TP. 2
15V
2.2V
R778 6.8k

R775 1k
R777 1k
R72 50k
R73 50k
R774 1k
R776 1k

R780 10k
C765 2.2/50V
C766 150p/50V(DM)
11.4V
R779 220
C763 100/35V
C764 0.01/50V
U762
12.5V
14.6V
R879 220
C865 2.2 50V
R880 10k
C866 150p/50V (DM)
R781 270k
R798 100k
R898 100k
R782 18k
R783 2.2k
R785 680k
C767 1500p 100V (PC)
10.7V
R784 10k
R884 10k
13.7V
C867 1500p 100V (PC)
R885 680k
R883 2.2k
R888 39k
R788 39k

HX PCB 101

DIODE

2SD288K	2SK68AMI 2SK105H	1S2473HJ 1S2473VE	ERB12-02G1	1SR34-200VL	W03C
C B E	S G D		BLACK RED		
E C B	D G S	EQA01-06R EQA01-06S EQA01-13R EQA01-08R	RD4.3EB	SPL-114B (RED)	

NOTES

1. Schematic diagram shown for left channel except for s components.
   Numbers in paretheses indicate right channel terminals
   Resistor values are in ohms (k = 1,000 ohms).
3. All capacitor values are in microfarads (p = picofarads
   (MD) = Electrolytic capacitor MD series
   (DM) = Dip. Mica
   (CE) = Ceramic
   (PC) = Polystyrene
   All non-polarized capacitors are ±5% mylar unless oth
4. ! Parts marked with this sign are safety critical comp
   They must always be replaced with identical compone
   TEAC parts list and ensure exact replacement.
5. Voltage and level values are for reference only.
   0dB = 0.775V
   Indicated values are those existing when the peak level
   0 dB.
6. ▭ : front panel indication
7. ⬚ : rear panel incication
8. ——— + B power supply circuit
   ——— −B power supply ciucuit

St

D306 (D406) IS2473HJ
D307 (D407) IS2473HJ
D308 (D408) (Not used)
D309 (D409) IS2473HJ
D310 (D410) IS2473HJ

D311 (D411) IS2473HJ
D312∿D315 IS2473HJ
D316 (D416) IS2473HJ
D317∿D320 IS2473HJ

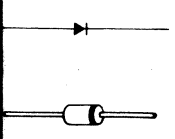
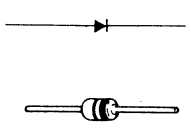
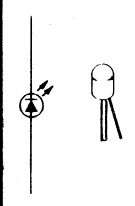
R18 100k (A)
R28 100k (A)
L RECORD R

J18 J15 J17 J16 J19
OUTPUT L R
PHONES
R175 470
R174 4.7k
R176 1k
C170 33/25V
Q170 Q171
C171 1/50V (MD)
R171 150k
R178
R270 10k
R28 100k (B)
R170 27k
R172 270k
R173 22
R177 1k
R Ch ONLY
R Ch
R181 10
C176 220/16V
R180 100k
C172 1/50V
U104
R179 15k
C174 10/16V
C173 10/16V
R182 39
C175 100/10V
R183 1k
REC AMPL PCB (7) R Ch
L OUTPUT R
R19 50k(A)x2

PHONE AMPL PCB 103

REC AMPL PCB (76) R Ch
J191
D192 D193 D194 D195 D196
R193 330k
R196 100k
R194 100k
C191 1/50V
C192 1/50V
R492 4.7k
R490 4.7k
R488 4.7k
C197 220/6.3V
C198 220/6.3V
R197 10k
R198 10k
13V
Q199 Q198 Q197
Q767 Q766 Q765
R491 100k
R489 100k
R487 100k
R797 100k
R796 100k
R795 100k
L761 3.6mH C770 0.0082(J)/100V R789 47
C771 0.0082(J)/100V R790 10k
L762 3.6mH C772 0.01(J)/100V R791 100
C773 0.015(J)/100V R792 6.8k
L763 3.6mH C774 0.0068(J)/100V R793 120
C775 0.0047(J)/100V R794 10k
-2.4V
R888 39k
R788 39k
C869 10/16V
C769 10/16V
10.7V
U763 -a
U763 -b
R783 2.2k
R785 680k
C767 1500p 100V (PC)
R784 10k
C768 (1500p/100V(PC)
R787 15k
R786 3.9k
R884 10k
R886 3.9k
13.7V
R885 680k
C867 1500p 100V (PC)
C868 1500p/100V(PC)
R887 15k
R883 2.2k
R780 10k
C765 2.2/50V
R779 220
C766 150p/50V(DM)
R781 270k
R798 100k
C763 100/35V
C764 0.01/50V
U762
R898 100k
R879 220
C865 2.2 50V
R880 10k
C866 150p/50V (DM)
R782 18k
11.4V
12.5V
14.6V
19.7V
TP. 1
TP. 3
TP. 4
TP. 2
17.6V HX IN NO SIGNA
14.4V HX OFF
9.9V HX IN 10k 0dB
R769 100k
Q761
R770 1k
D763
R771 1.2k
U761-d
R766 10k
R765 10k
C762 10/16V
R768 100k
R767 7k
Q764
R760 1k
Q763
14.4V
15V
R775 1k
R777 1k
R72 50k
R73 50k
R774 1k
R776 1k
R773 8.2k
2.8V
Q762
D764
R772 1k
2.2V
R778 6.8k
U764 BIAS AMPL UNIT
L764 1.2mH
R799 4.7k

HX PCB 101

1SR34-200VL	W03C
	
PL-114B (RED)	
	

NOTES
1. Schematic diagram shown for left channel except for some of the components.
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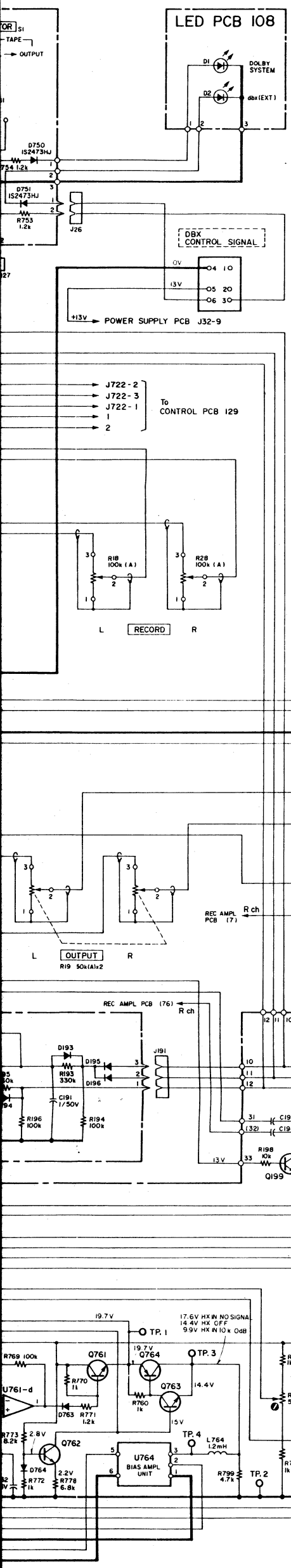
3. All capacitor values are in microfarads (p = picofarads).
   (MD) = Electrolytic capacitor MD series
   (DM) = Dip. Mica
   (CE) = Ceramic
   (PC) = Polystyrene
   All non-polarized capacitors are ±5% mylar unless otherwise specified.
4. ! Parts marked with this sign are safety critical components.
   They must always be replaced with identical components - refer to the TEAC parts list and ensure exact replacement.
5. Voltage and level values are for reference only.
   0dB = 0.775V
   Indicated values are those existing when the peak level meter indicates 0 dB.
6. ▭ : front panel indication
7. ⬚ : rear panel incication
8. ——— + B power supply circuit
   ——— −B power supply ciucuit

C-2X
Stereo Cassette Deck



SEMICONDUCTORS ( ): Rch

REC AMPL PCB 105

Q301 (Q401)	(Not used)
Q302 (Q402)	2SKI05(H)
Q303 (Q403)	(Not used)
Q304 (Q404)	2SKI05(H)
Q305 (Q405)	2SKI05(H)
Q306 (Q406)	(Not used)
Q307 (Q407)	2SKI05(H)
Q308 (Q408)	2SKI05(H)
Q309 (Q409)	2SKI05(H)
Q310 (Q410)	2SCI327(T)
Q311 (Q411)	2SCI684(S)
Q312 (Q412)	2SK68AMI
Q313 (Q413)	2SCI637(I)
Q314 (Q414)	2SCI637(I)
Q315	2SC536(G)
Q316	2SC2060(R)
Q317	2SCI684(S)
Q318	2SA933LN(S)
Q319	2SCI684(S)
Q320	2SC536(G)
Q321 (Q421)	2SCI684(S)
Q322 (Q422)	2SA933LN(S)
Q323 (Q423)	2SC536(G)
Q324 (Q424)	2SC536(G)
Q325 (Q425)	2SC536(G)
Q326 (Q426)	2SCI684(S)
Q327 (Q427)	2SA933LN(S)
Q328 (Q428)	2SC536(G)
Q329 (Q429)	2SC536(G)
Q330 (Q430)	2SC536(G)
Q331 (Q431)	2SD655(E)
D301 (D401)	(Not used)
D302 (D402)	IS2473HJ
D303 (D403)	(Not used)
D304 (D404)	(Not used)
D305 (D405)	(Not used)
D306 (D406)	IS2473HJ
D307 (D407)	IS2473HJ
D308 (D408)	(Not used)
D309 (D409)	IS2473HJ
D310 (D410)	IS2473HJ
D311 (D411)	IS2473HJ
D312~D315	IS2473HJ
D316 (D416)	IS2473HJ
D317~D320	IS2473HJ

DOLBY B TYPE PROCESSOR PCB 104

U101 (U201)	NE645B
U102 (U202)	NE645B
Q101 (Q201)	2SCI844(F)
Q102 (Q202)	2SCI327(T)
Q103 (Q203)	2SKI05(H)
Q104 (Q204)	2SD655E
Q105 (Q205)	2SKI05(H)
Q106 (Q206)	2SCI844(F)
Q107 (Q207)	2SA933LN(S)
Q108 (Q208)	2SK68AMI
Q109 (Q209)	2SA933LN(S)
D101 (D201)	IS2473HJ
D102	IS2473HJ
D103 (D203)	EQA0113R
D104 (D204)	IS2473HJ
D105	IS2473HJ
D106 (D206)	EQA0113R

HX PCB 101

U761	LM324J
U762	LMI3600
U763	4558DF
Q197~Q199	2SC945A(K)
Q761	2SC2060(Q)
Q762, Q763	2SC945A(K)
Q764	2SB631K(E)
Q765~Q767	2SC536(G)
D761~D764	IS2473HJ

PHONE AMPL PCB 103

U104	LA4170
Q170 (Q270)	2SK68AMI
Q171 (Q271)	2SCI636(2)

SW PCB 157

Q191 (Q291)	2SKI05(H)
Q192 (Q292)	2SKI05(H)
D191 (D291)	IS2473HJ
D192 (D292)	IS2473HJ
D193~D196	IS2473HJ

SW PCB

D750, D751	IS2473HJ

LED PCB 108

D1, D2	SLP-114B

4-200VL | W03C

NOTES